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## Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

## Listing of Claims:

- 1. (currently amended) A protein comprising a gp120 V1/V2 domain of an HIV-1 strain and not comprising the gp120 V3 domain of an HIV-1 strain, wherein said protein does not substantially bind CD4, said gp120 V1/V2 domain of said protein displaying an epitope which is recognized by an antibody which neutralized neutralizes at least one HIV-1 primary isolate with a ND<sub>90</sub> of less than 100 μg/ml.
- 2. (original) The protein of claim 1, wherein said V1/V2 domain epitope is recognized by an antibody which neutralizes at least one HIV-1 primary isolate from each of at least two different clades with a ND<sub>90</sub> of less than 100  $\mu$ g/ml.
- 3. (original) The protein of claim 1, wherein said two different clades are selected from the group consisting of clade A, clade B, clade C, clade D, and clade E.
- 4. (original) The protein of claim 1, wherein said V1/V2 domain epitope is recognized by an antibody which neutralizes at least two HIV-1 primary isolates of the same clade with a ND<sub>90</sub> of less than 100  $\mu$ g/ml.
- 5. (original) The protein of claim 3, wherein said V1/V2 domain epitope is recognized by an antibody which neutralizes at least one HIV-1 primary isolate of at least three different clades selected from the group consisting of clade A, clade B, clade C, clade D, and clade E, with a ND<sub>90</sub> of less than 100 μg/ml.
- 6. (original) The protein of claim 1 wherein said ND<sub>90</sub> is less than 50  $\mu$ g/ml.
- 7. (original) The protein of claim 1 wherein said ND<sub>90</sub> is less than 20  $\mu$ g/ml.
- 8. (original) The protein of claim 1 wherein said ND<sub>90</sub> is less than 10  $\mu$ g/ml.

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9. (original) The protein of claim 1 wherein said ND<sub>90</sub> is less than 5  $\mu$ g/ml.

- 10. (original) The protein of claim 1 wherein said ND<sub>90</sub> is less than 1  $\mu$ g/ml.
- 11. (original) The protein of claim 1 wherein said V1/V2 domain comprises a region that is at least 50% identical to GEIKNCSFNITTSIRDKVQKEYALFYKLDIVPID.
- 12. (original) The protein of claim 1 wherein said V1/V2 domain comprises a region that is at least 75% identical to GEIKNCSFNITTSIRDKVQKEYALFYKLDIVPID.
- 13. (original) The protein of claim 1 wherein said V1/V2 domain comprises a region that is at least 90% identical to GEIKNCSFNITTSIRDKVQKEYALFYKLDIVPID.
- 14. (original) The protein of claim 1 wherein said V1/V2 domain is at least 50% identical to
  - VKLTPLCVTLNCIDLRNATNATSNSNTTNTTSSSGGLMMEQGEIKNCSFNITT SIRDKV1KEYALFYKLDIVPIDNPKNSTNYRLISCNTSVITQA (SEQ ID NO:1).
- 15. (original) The protein of claim 1 wherein said V1/V2 domain is at least 50% identical to
  - VKLTPLCVTLNCIDLRNATNATSNSNTTNTTSSSGGLMMEQGEIKNCSFNITT SIRDKV1KEYALFYKLDIVPIDNPKNSTNYRLISCNTSVITQA (SEQ ID NO:1) and not comprising the gp120 V3 domain of an HIV-1 strain, wherein said protein does not substantially bind CD4, said gp120 V1/V2 domain related region displaying an epitope which is recognized by an antibody which neutralizes at least one HIV-1 primary isolate with s ND<sub>90</sub> of les than 100  $\mu$ g/ml.
- 16. (original) The protein of claim 1 wherein said V1/V2 domain is at least 90% identical to
  VKLTPLCVTLNCIDLRNATNATSNSNTTNTTSSSGGLMMEQGEIKNCSFNITT

SIRDKV1KEYALFYKLDIVPIDNPKNSTNYRLISCNTSVITQA (SEQ ID NO:1).

17. (original) The protein of claim 1, wherein said protein is a glycoprotein.

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18. (currently amended) A protein comprising a gp120 V1/V2 domain of an HIV-1 strain and not comprising a gp120 V3 domain of an HIV-1 strain, wherein said protein does not substantially bind CD4, said protein, when used to immunize a rat, being eapable of eliciting elicits an antibody which neutralizes at least one clade B HIV-1 primary isolate and at least one clade D HIV-1 primary isolate with a ND<sub>90</sub> of less than 100 μg/ml.

- 19. (original) Monoclonal antibody which binds the gp120 V1/V2 domain of HIV-1 strain Case-A2 and neutralizes at least one clade B HIV-1 primary isolate and at least one clade D HIV-1 primary isolate with a ND<sub>90</sub> of less than 100  $\mu$ g/ml.
- 20. (original) The monoclonal antibody of claim 19 wherein said antibody neutralizes at least one clade A HIV-1 primary isolate with a ND<sub>90</sub> of less than 100  $\mu$ g/ml.
- 21. (currently amended) A method for stimulating the formation of antibodies that neutralize eapable of neutralizing infection by an HIV viral isolate in at least one mammalian species, which comprises immunizing administering to a mammalian subject with a composition comprising the protein of claim 1.
- 22. (original) The method of claim 21 wherein said composition is suspended in a pharmaceutical carrier or vehicle.
- 23. (original) The method of claim 21 wherein said composition comprises an adjuvant.
- 24. (original) The method of claim 23 wherein said adjuvant is an aluminum salt.
- 25. (original) The method of claim 23 wherein said adjuvant is an oil-in-water emulsion comprising a emulsifying agent and a metabolizable oil.
- 26. (original) The method of claim 21 wherein said composition is administered to said mammalian subject by injection.
- 27. (original) An nucleic acid molecule encoding the protein of claim 1.
- 28. (original) An expression vector comprising the nucleic acid molecule of claim 27.

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29. (original) A host cell harboring the vector of claim 28.

- 30. (original) A hybrid protein comprising a first part and a second part, said first part comprising the protein of claim 1, said second part comprising an amino terminal carrier protein comprising all or a portion of Friend MuLV gp70.
- 31. (original) The protein of claim 30 wherein said portion of gp170 comprises amino acids 1-33 of gp70.
- 32. (original) A protein comprising a first portion and a second portion, said first portion being a V1/V2 domain region homologous to PCVKLTPCV, said second portion being a V1/V2 domain region homologous to SCNTSVITQACP, said first and second portions being linked by at least one disulfide bond.